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Reaction tank - in which a liq. stored in the tank main body is stirred and subjected to reaction and a vapour contg. a low boiling point substance generating from the reaction is taken out of the tank

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Patent Family:

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JP 10052634	A	19980224	JP 96227820	A	19960810	199818 B

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Patent Details:

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Abstract (Basic): JP 10052634 A

A reaction tank in which a liq. stored in the tank main body (1) is stirred and subjected to reaction and a vapour contg a low boiling point substance generating from the reaction is taken out of the tank; the tank comprising (1) a first introductory part by which a raw material contg two or more liquids which can be chemically reacted is introduced to the reaction tank main body, (2) a stirring device (2) to stir the raw material in the tank main body, (3) a vapour outlet (6) by which the resulting vapour contg the low boiling point substance is taken out of the tank, and (4) a product outlet by which the product is taken out of the tank; wherein the reaction tank main body is arranged horizontally such that the cylindrical axis is in the horizontal direction.

USE - The reaction tank is useful for production of a carboxylic ester by stirring an organic acid and an alcohol.

ADVANTAGE - Compared with the conventional vertical tank, with the reaction tank of this horizontal type, the liq depth can be reduced and the liq pressure applied to the tank main body can be decreased, and the liq surface area can be increased, thus the evaporation of the resulting water can be more accelerated. Therefore the removal of the generated water can be easily done, and the chemical reaction can be carried out with higher rate and in shorter time.

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